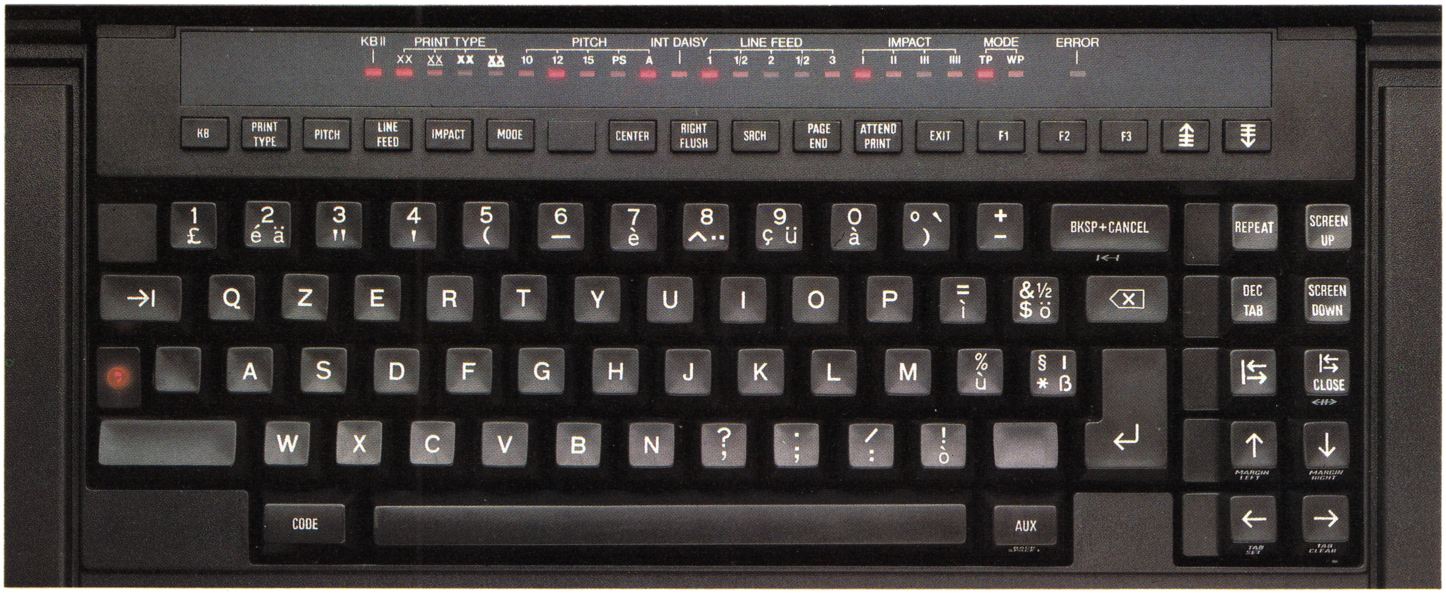
olivetti

Technical specifications

ETV 250

olivetti ETV 250



The ETV 250 is a word processing system that consists of a video display and a Fully Integrated Processor Unit that combines all the functions of a Word Processing System (the recording, modification and printing of texts) with those of a normal typewriter.

Main features:

☐ **12 in. video display, with a capacity of 1920 characters**
☐ **Fully Integrated Processor Unit, comprising printer, keyboard, and drive for 2 microfloppy disks**
☐ **2 microfloppy disks (3½ in.) each with a capacity of 320,000 characters**
☐ **daisy wheel printing element, with automatic pitch recognition**
☐ **fully automatic, completely silent paper handling**
☐ **user-installable options available.**

TECHNICAL SPECIFICATION

VIDEO DISPLAY

12 in. display, green on black.
Capacity: 1920 characters (24 lines of 80 characters).
Graphic matrix: 12 x 8.
Full graphic set of alphanumerical characters in accordance with the various national alphabets.
Brightness controlled by user.
Cursor to indicate the working point.
Screen adjustable to operator's requirements and environmental conditions by means of a device underneath the video display.

Display functions

☐ vertical scrolling by line and display page
☐ horizontal scrolling for lines longer than 78 characters
☐ forward or reverse, a character, word or paragraph at a time
☐ fast positioning of cursor at start/end of text
☐ highlighting
☐ reverse
☐ underscore
☐ reveal and blind.

The display is divided into two zones:
☐ one 4-line service zone, which displays:
— the working memory available for entering texts, and the operating mode (insert and overtype)
— the name of the entered text and any prompt messages for the operator
— the parameters governing the layout (lefthand and righthand margins, length of line, etc.)
— the line format
☐ one 20-line zone containing the characters that constitute the text.

Immediately after the 20th line is entered, the text is automatically scrolled vertically one line at a time.
Lines containing more than 78 characters are scrolled horizontally, the operator being free to choose the number of characters scrolled at a time, i.e.: 1, 20, 50.
Character set displayed: all the characters that can be keyed in from the keyboard, including dead keys and service codes (such as centering, righthand margin justification, etc.).

FULLY INTEGRATED PROCESSOR UNIT (FIPU)

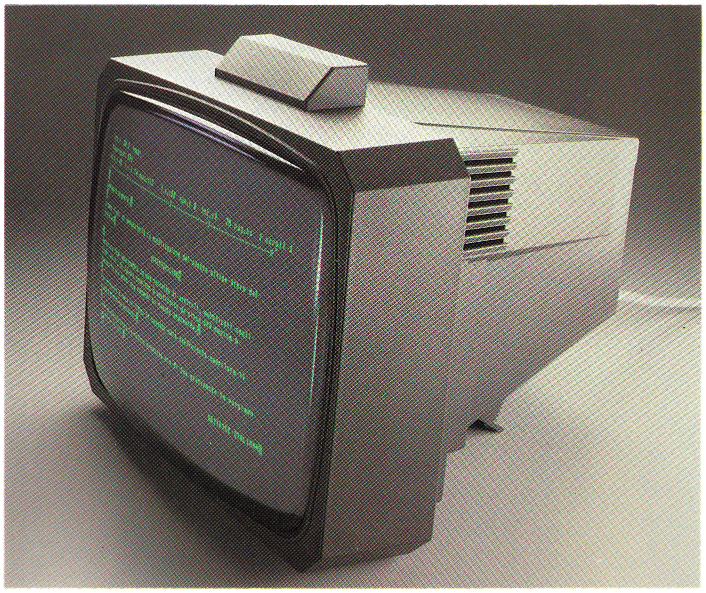
The FIPU comprises the keyboard, printer, drive for two microfloppy disk units, and the system electronics, all in one casing.

Keyboard

The ETV 250 keyboard is divided into two parts:
☐ the keyboard proper, while designed for a Word Processing environment, includes the functions characteristic of an ordinary typewriter. The different functions of the keys in WP (Word Processing) and TP (Typewriter) mode respectively are clearly marked
☐ 1 section consisting of a row of 17 function keys, including:
— 6 which select specific machine modes, and are displayed on a LED mask
— 6 for selecting specific WP modes
— 3 (F1, F2, F3) which are available to the user for use in other application environments
— 2 for moving the paper upwards and/or downwards.

Description of Keys

The functions shown in brackets are the ones activated when the system is in TP mode.
Alphanumerical keys (max. 48).
REPEAT key, to make all of the keys or certain functions repeat.
Two shift keys.
Shift lock with indicator light.
Automatically repeating line feed and new line control.
Upwards scrolling key.
Downwards scrolling key.
Paragraph indentation key.
Indented paragraph closure key (margin release key).
Key for moving cursor upwards (lefthand margin key).
Key for moving cursor downwards (righthand margin key).
Key for moving cursor to left (tabulation setting key).
Key for moving cursor to right (tabulation clearing key).
AUX key for special functions linked to other keys. A special help menu will appear on the display at the operator's command, giving details of the various linked functions.
Automatic repeating single-backspace + cancellation key (backspace key).
Automatic repeating character cancellation key.
Decimal tabulation key.
Alphanumeric tabulation key.
CODE key for using coded automatic functions.
Space bar.



Keys on the small keyboard

Automatic centering key.
Right flush key.
Search key.
Manual end-of-page control.
Attend print control for background printing.
EXIT key for interrupting a specific function.

Display of operating conditions

A special LED mask displays whichever of the machine modes is selected.
KBII: for using special characters (accents, etc.) which are additional to those included in the national keyboard, so as to be able to enter texts in foreign languages without having to change the daisy wheel.
PRINT TYPE: for selecting the type of printing, i.e.:
☐ XXXX normal printing
☐ XXXX normal printing, underlined
☐ **XXXX** printing in bold face
☐ **XXXX** printing in bold face, underlined.
PITCH: for selecting the horizontal spacing, i.e.:
☐ constant 10-pitch spacing
☐ constant 12-pitch spacing
☐ constant 15-pitch (Mikron) spacing
☐ proportional spacing (PS).
Since the daisy wheel is equipped with the automatic pitch recognition device, two LEDs light up automatically – the "A" LED, and the one corresponding to the printing pitch of the daisy wheel that is in use.
LINE FEED: for selecting the vertical spacing.
IMPACT: for adjusting the type impact.
MODE: for selecting WP or TP mode.
When the system is switched on, WP mode is selected automatically.

MEMORY

The volatile memory with a total capacity of 64,000 characters can handle one text at a time (max. 21,000 characters), which can subsequently be recorded on disk.

MICROFLOPPY DISK UNIT

The ETV 250 is equipped with an external microfloppy disk memory, with two drives.
The drives are located horizontally in two recesses at the sides of the keyboard, enabling the disk to be inserted frontally by the operator.
A special LED on the drive lights up when operations are being carried out on the disk.
The 3½ in. microfloppy disks each have a capacity of 320,000 characters (single side, double density).
The disk has a semi-rigid cover which provides excellent protection.
The Word Processing program is resident on disk (system disk) and is loaded into the machine when the system is switched on and the disk is inserted in the drive.
The data disk is initialized automatically by the system when it is inserted in the machine for the first time.

PRINT UNIT

Bidirectional, with a speed of approx. 16 characters per second.
Fixed carriage accepts paper up to 17 inches wide; length of printing line 13.2 inches.
End-of-ribbon monitoring device.
The following are located on the upper part of the machine:
☐ movable paper guide
☐ paper release lever
☐ bail rod
☐ adjustable anti-dazzle screen.
The platen regulator lever, which has different settings to accommodate different numbers of pages (max. 1 original + 6 copies) is inside the machine.

PAPER CONTROLS

Paper handling on the ETV 250 is fully automatic and completely silent. The paper can be moved up or down, rapidly or micrometrically, by keyboard control.
The paper is fed in automatically, and positioned at the first typing line.
In addition, the ETV 250 is fitted with an electronic 5-position paper control, for moving the paper:
☐ upward/downward
☐ fast upward/fast downward with stops at multiples of one half vertical space.

Typing ribbon

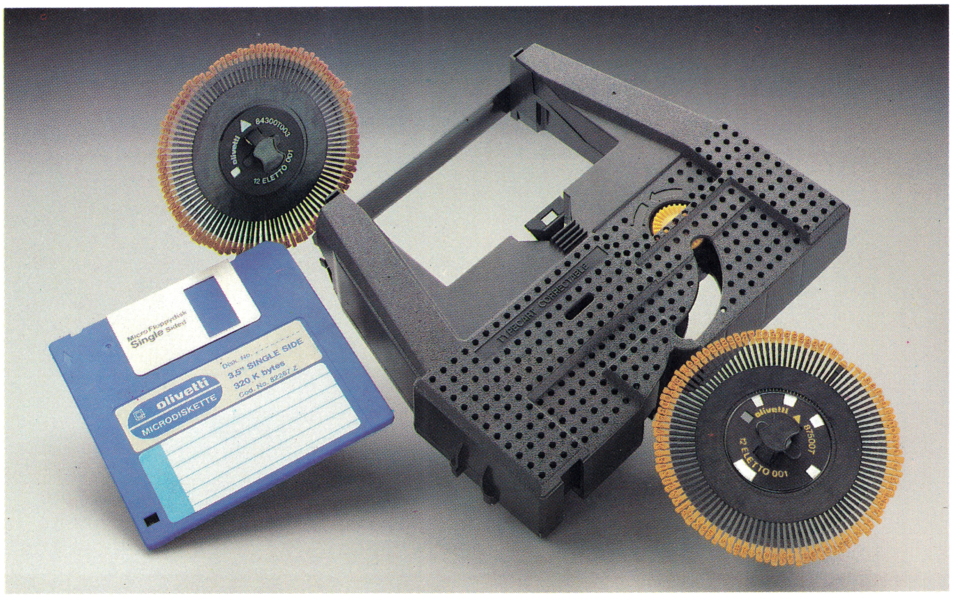
Four types of ribbon are available:
☐ fabric, with a capacity of approx. 1,200,000 characters
☐ carbon, with a capacity of approx. 200,000 characters
☐ correctable carbon, with a capacity of approx. 200,000 characters
☐ multi-strike, with a capacity of approx. 600,000 characters.

Corrector ribbon

Capacity approx. 1,500 characters.
Two types are available:
☐ LIFT-OFF, for use with correctable carbon ribbon
☐ COVER-UP, for carbon or nylon ribbons.

Printing element

Single interchangeable daisy wheel printing element, with optical recognition strip for automatically selecting the correct printing pitch for whichever daisy wheel is in use.
In addition, the "Daisy Adaptor" makes it possible to automatically insert the printing element in the correct position.
The "Daisy Adaptor" can also be used with any other Olivetti daisy wheel, regardless of the typeface and horizontal spacing.



CENTRAL UNIT

Main components:
- ☐ basic board, which comprises the machine logic and the printer, drives and video control units
- ☐ Z-80 microprocessor
- ☐ volatile working memory (RAM) with a capacity of approximately 64,000 characters
- ☐ power pack
- ☐ connections to the drives, video, keyboard and printer
- ☐ connection to the communication cassette.

OPTIONS

The following options are available for the ETV 250 and, with the exception of the sprocket feed and the automatic sheet feeder, **can all be fitted easily by the operator**:
- ☐ 5¼ in. minifloppy disk, for reading data recorded on the ETV 300 and providing full compatibility between the two environments
- ☐ adjustable support bracket for the video display, which can be fitted to the desk or table in the required position
- ☐ bichannel RS 232/RS 232 or Centronics interface.
  The interfaces are housed in a box that is inserted in the rear of the machine, making the system immediately capable of on-line transmission.

Sprocket feed and automatic sheet feeder, which can readily be fitted by Technical Maintenance Service personnel.

Electrical specification

Mains supply: 115 V.
Frequency: 50/60 Hz.

Dimensions and weight

FIPU
width: 23.8 in
height: 7.3 in
depth: 20.2 in
weight: 38.9 lbs
Video display
width: 12.0 in
height: 10.7 in
depth: 12.6 in
weight: 12.9 lbs

Environmental conditions

Temperature: 59°-95°F.
Relative humidity: 15%-85%.

SOFTWARE SPECIFICATIONS

The Word Processing program is based on the CP/M* operating system.
Its basic functions consist of:
- ☐ creation, modification, storage, cancellation and printing of texts
- ☐ rapid, easy search for stored texts.

In addition it is possible, simply by pressing one key, to change over to Typewriter Mode for making short notes, typing addresses, etc.

WP environment: main functions

- ☐ rapid location of texts by means of a name and – optionally – a comment to simplify the search process
- ☐ definition, storage and recall of three different line formats in current use
- ☐ alphabetical and decimal tabulation
- ☐ indented paragraph (various levels)
- ☐ centering and right flush
- ☐ automatic new line when the word keyed in cannot be fitted completely into the typing line (word-wrap)
- ☐ ½ vertical spacing upwards and downwards (superscripts and subscripts)
- ☐ ABORT (exit) function for clearing operator errors
- ☐ text processing in insert/overstrike mode
- ☐ righthand margin justification
- ☐ hyphenation (manual)
- ☐ search key
- ☐ global search and replace, automatic or with verification
- ☐ block move/copy/delete
- ☐ paragraph assembly
- ☐ repagination
- ☐ stop printing
- ☐ manual end-of-page override control
- ☐ headers/footers
- ☐ automatic page numbering
- ☐ changing of line format before printing
- ☐ standard text with stop codes
- ☐ linking of standard text with variable texts
- ☐ preparation and modification of tables
- ☐ background print
- ☐ display and printing of text directory
- ☐ text deletion
- ☐ text or disk duplication
- ☐ disk deletion
- ☐ text protection.

TP environment: main functions

- ☐ definition and modification of line format
- ☐ automatic underscore, bold type, underlined bold type
- ☐ alphabetic and decimal tabulation
- ☐ automatic correction memory for one line of type
- ☐ superimposed characters
- ☐ superscripts and subscripts.

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